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ORGANIC ELECTROLYTE SECONDARY BATTERY (2000-106210

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International Class:

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Abstract:

PROBLEM TO BE SOLVED: To prevent igniting and to enhance safety by housing a positive electrode, using a lithium nickel composite oxide as an active material and a lithium ion movable organic electrolyte in a sealed container, and including a specified range at weight percent of vinylene carbonate in the organic electrolyte. SOLUTION: An electrode group, prepared by winding strip-shaped positive electrode and negative electrode via a separator 5, is put in a battery can 6, the terminal of a negative electrode current collector 3 is welded to the bottom, and an electrolyte is poured into the battery can 6. A positive tab terminal 8 is welded to a positive electrode current collector 1 and a positive electrode cap 7. The battery can 6 is sealed with the positive electrode cap 7 via an insulating gasket 9. A lithium nickel composite oxide represented by the general formula LiNixCoyOz $(0.7 \le x \le 0.9, 0.1 \le y \le 0.3, x+y=1, 0.001 \le z \le 0.02)$ is used as a positive active material 2. In the electrolyte, as a solute 0.75-2.5 mol/1 LiPF6 is contained, and in addition, 1-20 wt.% vinylene carbonate is contained. COPYRIGHT: (C)2000,JPO

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